

```

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variant 1 (LAPTM4B) mRNA, complete cds.
ACCESSION  AY057051
VERSION    AY057051.2   GI:30146628
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SOURCE     Homo sapiens (human)
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            Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 2245)
AUTHORS    Shao,G.Z., Zhou,R.L., Zhang,Q.Y., Zhang,Y., Liu,J.J., Rui,J.A.,
            Wei,X. and Ye,D.X.
TITLE      Molecular cloning and characterization of LAPTM4B, a novel gene
            upregulated in hepatocellular carcinoma
JOURNAL    Oncogene 22 (32), 5060-5069 (2003)
PUBMED     12902989
REFERENCE  2 (bases 1 to 2245)
AUTHORS    Shao,G. and Zhou,R.
TITLE      Direct Submission
JOURNAL    Submitted (24-SEP-2001) Cell Biology, Peking University Health
            Science Center, 38# XueYuan Road, Beijing 100083, China
REFERENCE  3 (bases 1 to 2245)
AUTHORS    Shao,G. and Zhou,R.
TITLE      Direct Submission
JOURNAL    Submitted (23-MAY-2002) Cell Biology, Peking University Health
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REMARK     Sequence update by submitter
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AUTHORS    Shao,G. and Zhou,R.
TITLE      Direct Submission
JOURNAL    Submitted (24-MAR-2003) Cell Biology, Peking University Health
            Science Center, 38# XueYuan Road, Beijing 100083, China
REMARK     Sequence update by submitter
COMMENT    On Apr 28, 2003 this sequence version replaced gi:16508140.
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ORIGIN

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<!--StartFragment-->RESULT 1

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 DT 01-JUN-2003, sequence version 1.
 DT 24-NOV-2009, entry version 43.
 DE RecName: Full=Lysosomal-associated transmembrane protein 4B;
 DE AltName: Full=Lysosome-associated transmembrane protein 4-beta;
 GN Name=LAPTM4B; ORFNames=PSEC0001;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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 RX Shao G.-Z., Zhou R.L., Zhang Q.Y., Zhang Y., Liu J.J., Rui J.A.,
 RA Wei X., Ye D.X.;
 RT "Molecular cloning and characterization of LAPTM4B, a novel gene
 RT upregulated in hepatocellular carcinoma.";
 RL Oncogene 22:5060-5069(2003).
 RN [2]
 RP NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 3).
 RA Hogue D.L.;
 RL Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 3).
 RX PubMed=16303743; DOI=10.1093/dnares/12.2.117;
 RA Otsuki T., Ota T., Nishikawa T., Hayashi K., Suzuki Y., Yamamoto J.,
 RA Wakamatsu A., Kimura K., Sakamoto K., Hatano N., Kawai Y., Ishii S.,
 RA Saito K., Kojima S., Sugiyama T., Ono T., Okano K., Yoshikawa Y.,
 RA Aotsuka S., Sasaki N., Hattori A., Okumura K., Nagai K., Sugano S.,
 RA Isogai T.;
 RT "Signal sequence and keyword trap in silico for selection of full-
 RT length human cDNAs encoding secretion or membrane proteins from oligo-
 RT capped cDNA libraries.";
 RL DNA Res. 12:117-126(2005).
 RN [4]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 3).
 RC TISSUE=Uterus;
 RX MEDLINE=21154917; PubMed=11230166; DOI=10.1101/gr.GR1547R;
 RA Wiemann S., Weil B., Wellenreuther R., Gassenhuber J., Glassl S.,
 RA Ansorge W., Boecher M., Bloeker H., Bauersachs S., Blum H.,
 RA Lauber J., Duesterhoeft A., Beyer A., Koehler K., Strack N.,
 RA Mewes H.-W., Ottenwaelter B., Obermaier B., Tampe J., Heubner D.,
 RA Wambutt R., Korn B., Klein M., Poustka A.;
 RT "Towards a catalog of human genes and proteins: sequencing and
 RT analysis of 500 novel complete protein coding human cDNAs.";
 RL Genome Res. 11:422-435(2001).
 RN [5]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORMS 2 AND 3).
 RC TISSUE=Brain, Eye, and Lung;
 RX PubMed=15489334; DOI=10.1101/gr.2596504;
 RG The MGC Project Team;
 RT "The status, quality, and expansion of the NIH full-length cDNA
 RT project: the Mammalian Gene Collection (MGC).";
 RL Genome Res. 14:2121-2127(2004).
 RN [6]
 RP PHOSPHORYLATION [LARGE SCALE ANALYSIS] AT TYR-367, AND MASS
 RP SPECTROMETRY.
 RX PubMed=18083107; DOI=10.1016/j.jcell.2007.11.025;

RA Rikova K., Guo A., Zeng Q., Possemato A., Yu J., Haack H., Nardone J.,
 RA Lee K., Reeves C., Li Y., Hu Y., Tan Z., Stokes M., Sullivan L.,
 RA Mitchell J., Wetzel R., Macneill J., Ren J.M., Yuan J.,
 RA Bakalarski C.E., Villen J., Kornhauser J.M., Smith B., Li D., Zhou X.,
 RA Gygi S.P., Gu T.-L., Polakiewicz R.D., Rush J., Comb M.J.;
 RT "Global survey of phosphotyrosine signaling identifies oncogenic
 RT kinases in lung cancer."
 RL Cell 131:1190-1203(2007).
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 CC -!- SIMILARITY: Belongs to the LPTM4/LPTM5 transporter family.
 CC -----
 CC Copyrighted by the UniProt Consortium, see <http://www.uniprot.org/terms>
 CC Distributed under the Creative Commons Attribution-NoDerivs License
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 DR EMBL; AF527412; AAP14034.1; -; mRNA.
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 DR UCSC; uc003yia.1; human.
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 DR GeneCards; GC08P098856; -.
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 DR HPA; CAB020782; -.
 DR PharmGKB; PA128395785; -.
 DR HOVERGEN; Q86VI4; -.
 DR NextBio; 59711; -.
 DR ArrayExpress; Q86VI4; -.
 DR Bgee; Q86VI4; -.
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 DR GO; GO:0016021; C:integral to membrane; IEA:UniProtKB-SubCell.
 DR GO; GO:0006810; P:transport; IEA:UniProtKB-KW.
 DR InterPro; IPR018401; Lysosomal-assoc_TM_prot4B.
 DR InterPro; IPR004687; Mtp_transporter.
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 DR Pfam; PF03821; Mtp; 1.

PE 1: Evidence at protein level;
 KW Alternative splicing; Complete proteome; Membrane; Phosphoprotein;
 KW Transmembrane; Transport.
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